10/080,890

	Type	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors	Ref #
1	BRS	1	US20030161547A1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/01/19 10:36				S1
2	BRS	4019	382/173,180,251,254,257,260-264,270-273.ccls. and @ad<"20020222"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/01/19 10:36				S2
3	BRS	1961	348/607,618,619;358/3.21,3.24,3.27,447;708/300.ccls. and @ad<"20020222"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/01/19 10:37				S3
4	BRS	5726	(S2 S3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/01/19 10:39				S4
5	BRS	418	(morph ((dilat$3 expan$4) with (ero$4 thin$4))) with (segment$5 label$4 "connected component")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/01/19 13:58				S5
6	BRS	13	S4 and S5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/01/19 12:07				S6
7	BRS	865	(morph ((dilat$3 expan$4) with (ero$4 thin$4))) same (segment$5 label$4 "connected component")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/01/19 12:02				S7
8	BRS	4019	382/173,180,251,254,257,260-264,270-273.ccls. and @ad<"20020222"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/01/19 12:07				S8
9	BRS	1961	348/607,618,619;358/3.21,3.24,3.27,447;708/300.ccls. and @ad<"20020222"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/01/19 12:07				S9
10	BRS	5726	(S8 S9)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/01/19 12:07				S10
11	BRS	34	S10 and S7	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/01/19 12:29				S11

	Type	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors	Ref #
12	BRS	0	Moroney and (non$1linear adj1 mask)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/01/19 12:30				S12
13	BRS	322	Moroney.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/01/19 12:30				S13
14	BRS	2	Moroney-n.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/01/19 12:32				S14
15	IS&R	3	("6813041").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/01/19 12:32				S15
16	BRS	7	("20020186387" | "4847654" | "5189529" | "5282036" | "5793855" | "6028957" | "6275304").PN.	US-PGPUB; USPAT; USOCR	2005/01/19 12:33				S16
17	BRS	0	("6813041").URPN.	USPAT	2005/01/19 12:34				S17
18	BRS	19486	(segment$5 component) with (guid$3 determin$5 control$4 direct$3) with (filter$3 LPF HPF)	USPAT	2005/01/19 12:43				S18
19	BRS	11	(segment$5) with (control$4) with (LPF low$1pass)	USPAT	2005/01/19 12:39				S19
20	BRS	9	S19 and @ad<"20000222"	USPAT	2005/01/19 14:32				S20
21	BRS	16545	(segment$5 component) with (guid$3 control$4 direct$3) with (filter$3 LPF low$1pass)	USPAT	2005/01/19 12:44				S21
22	BRS	1281	(segment$5) with (guid$3 control$4 direct$3) with (filter$3 LPF low$1pass)	USPAT	2005/01/19 12:44				S22
23	BRS	23	(segment$5) with (guid$3 control$4 direct$3) with (LPF low$1pass)	USPAT	2005/01/19 12:45				S23
24	BRS	1	S10 and S23	USPAT	2005/01/19 12:45				S24
25	BRS	39	S10 and S22	USPAT	2005/01/19 12:45				S25

	Type	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors	Ref #
26	BRS	1	(quanti$6) with (morph ((dilat$3 expan$4) with (ero$4 thin$4))) with (segment$5 label$4 "connected component"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/01/19 14:00				S26
27	BRS	4	(quanti$6) same ((morph ((dilat$3 expan$4) with (ero$4 thin$4))) with (segment$5 label$4 "connected component"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/01/19 14:04				S27
28	BRS	11	(quanti$6) same ((morph ((dilat$3 expan$4) with (ero$4 thin$4))) same (segment$5 label$4 "connected component"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/01/19 14:08				S28
29	BRS	24	((morph dilat$3 expan$4 ero$4 thin$4) with (bit$1plane))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/01/19 14:34				S29
30	BRS	6	S29 and @ad<"20000222"	USPAT	2005/01/19 14:41				S30
31	BRS	26	((morph dilat$3 expan$4 ero$4 thin$4) with ((plural$3 multiple several "a number of" ((more greater larger) adj2 ("1" one))) near3 ((binary bi$1ton$2 black) adj3 image)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/01/19 14:39				S31
32	BRS	18	S31 and @ad<"20000222"	USPAT	2005/01/19 15:20				S32
33	IS&R	2	("5724454").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/01/19 15:07				S33
34	BRS	8	(averag$3 filter$3 convol$5 LPF) with ((peer peripheral neighbor$3 "adjacent" "nearby") near3 (pixel point) near3 (("same" common) adj1 (segment component partition block group set)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/01/19 15:18				S34
35	BRS	16	(averag$3 filter$3 convol$5 LPF) with ((peer peripheral neighbor$3 "adjacent" "nearby") near3 (pixel point) near3 ((different other) near3 (segment component partition block group set)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/01/19 15:24				S35
36	BRS	5	S35 and @ad<"20000222"	USPAT	2005/01/19 15:26				S36
37	BRS	15542	(averag$3 filter$3 convol$5 LPF) with (((different other outside without) near3 (segment component partition block group set)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/01/19 15:23				S37

	Type	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Error Comments	Errors	Ref #
38	BRS	49	(averag$3 filter$3 convol$5 LPF) with ((peer peripheral neighbor$3 "adjacent" "nearby") near3 (pixel point) near3 (fore$1ground back$1ground))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/01/19 15:25					S38
39	BRS	17	S38 and @ad<"20000222"	USPAT	2005/01/21 09:31					S39
40	BRS	2702	(image tone) with ((enhanc$5 re$1produc$4) with (parameter seed))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/01/19 15:49					S40
41	BRS	4	(image tone) with ((enhanc$5 re$1produc$4) with (global adj2 (parameter seed)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/01/19 15:49					S41
42	BRS	124	S10 and S40	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/01/19 15:52					S42
43	BRS	39	(image tone) with ((enhanc$5 re$1produc$4) with seed)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/01/19 15:49					S43
44	BRS	2	S10 and S43	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/01/19 15:53					S44
45	BRS	314	luo-h.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/01/19 16:00					S45
46	BRS	105	S45 and @ad>="20020222"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/01/19 16:02					S46
47	BRS	1	S45 and @ad="20020222"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/01/19 16:03					S47
48	BRS	2	(seed with ((region$1of$1interest ROI) near3 (algorithm approach method)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/01/19 16:04					S48

	Type	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors	Ref #
49	BRS	4019	382/173,180,251,254,257,260-264,270-273.ccls. and @ad<"20020222"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/01/21 09:31				S49
50	BRS	1961	348/607,618,619;358/3.21,3.24,3.27,447;708/300.ccls. and @ad<"20020222"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/01/21 09:31				S50
51	BRS	5726	(S49 S50)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/01/21 09:31				S51
52	BRS	2707	(image tone) with ((enhanc$5 re$1produc$4) with (parameter seed))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/01/21 11:45				S52
53	BRS	113	S51 and S52	USPAT	2005/01/21 11:29				S53
54	BRS	1	(((tone near2 re$1produc$4) near3 enhanc$5) with (parameter seed))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/01/21 09:39				S54
55	BRS	2	((tone near2 (produc$4 re$1produc$4) near3 enhanc$5) with (parameter seed))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/01/21 09:40				S55
56	BRS	4	S53 and ROI	USPAT	2005/01/21 11:29				S57
57	BRS	26	(enhanc$5 re$1produc$4) with ((parameter seed) with (contrast near5 (region ROI area object)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/01/21 11:47				S58
58	BRS	12	S58 and @ad<"20020222"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/01/21 11:48				S59
59	IS&R	2	("5528703").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/01/21 15:55				S60

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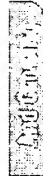
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1 **Segmentation of multiple sclerosis lesions in intensity corrected
multispectral MRI**
Johnston, B.; Atkins, M.S.; Mackiewich, B.; Anderson, M.;
Medical Imaging, IEEE Transactions on , Volume: 15 , Issue: 2 , April 1996
Pages:154 - 169

[Abstract]   [PDF Full-Text (3968 KB)]   **IEEE JNL**

2 **A robust bubble delineation algorithm for froth images**
Weixing Wang; Stephansson, O.;
Intelligent Processing and Manufacturing of Materials, 1999. IPMM '99. Proceedings
of the Second International Conference on , Volume: 1 , 10-15 July 1999
Pages:471 - 476 vol.1

[Abstract]   [PDF Full-Text (744 KB)]   **IEEE CNF**

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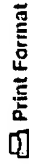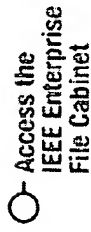
3 **2-D binary locally monotonic regression**
Restrepo, A.; Acton, S.T.;
Acoustics, Speech, and Signal Processing, 1999. ICASSP '99. Proceedings., 1999
IEEE International Conference on , Volume: 6 , 15-19 March 1999
Pages:3245 - 3248 vol.6

[Abstract]   [PDF Full-Text (248 KB)]   **IEEE CNF**

4 **Proceedings of the IEEE Southwest Symposium on Image Analysis and Interpretation**

Image Analysis and Interpretation, 1994., Proceedings of the IEEE Southwest
Symposium on , 21-24 April 1994
[Abstract]   [PDF Full-Text (64 KB)]   **IEEE CNF**

5 **Proceedings of 1st International Conference on Image Processing**

Image Processing, 1994. Proceedings. ICIP-94., IEEE International
Conference , Volume: 1 , 13-16 Nov. 1994
[Abstract]   [PDF Full-Text (484 KB)]   **IEEE CNF**

6 **A rule-based system for document image segmentation**
Fisher, J.L.; Hinds, S.C.; D'Amato, D.P.;
Pattern Recognition, 1990. Proceedings., 10th International Conference
on , Volume: i , 16-21 June 1990
Pages:567 - 572 vol.1

[Abstract]   [PDF Full-Text (588 KB)]   **IEEE CNF**

10/080,890

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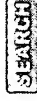
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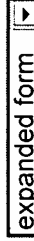
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1 Evolutionary image enhancement with user behaviour modeling
Cristian Munteanu, Agostinho Rosa
March 2001 **Proceedings of the 2001 ACM symposium on Applied computing**

Full text available: 📄 pdf(188.50 KB)   Additional Information: full citation, references, index terms

Keywords: image enhancement, multiple regression, real-coded genetic algorithms, subjective fitness

2 Special issue on SAC 2001 best papers: Evolutionary image enhancement with user behavior modeling
Cristian Munteanu, Agostinho Rosa
April 2001 **ACM SIGAPP Applied Computing Review,** Volume 9 Issue 1

Full text available: 📄 pdf(831.87 KB)   Additional Information: full citation, abstract, references

In this paper we present a novel method for image enhancement of gray-scale images based on the simulation of evolution. Our method employs Genetic Algorithms to evolve the shape of the contrast curve in the image, while attempting to partially automate the subjective process of image evaluation (e.g. user behavior) by performing multiple regression on fitness values. Results obtained show the robustness and efficiency of the evolutive method for image enhancement. For several images in the test ...

Keywords: image enhancement, multiple regression, real-coded genetic algorithms, subjective fitness

3 Visual perception and communication: Image fusion for context enhancement and video surrealism
Ramesh Raskar, Adrian Ilie, Jingyi Yu
June 2004 **Proceedings of the 3rd international symposium on Non-photorealistic animation and rendering**

Full text available: [A] pdf(1.04 MB)   Additional Information: full citation, abstract, references

We present a class of image fusion techniques to automatically combine images of a scene captured under different illumination. Beyond providing digital tools for artists for creating surrealist images and videos, the methods can also be used for practical applications. For example, the non-realistic appearance can be used to enhance the context of nighttime traffic videos so that they are easier to understand. The context is automatically captured from a fixed camera and inserted from a day-tim ...

Keywords: gradient domain approach, image fusion, surrealism

4 Three-dimensional medical imaging: algorithms and computer systems
M. R. Stytz, G. Frieder, O. Frieder
December 1991 **ACM Computing Surveys (CSUR)**, Volume 23 Issue 4

Full text available: [A] pdf(7.38 MB)   Additional Information: full citation, references, citings, index terms, review

Keywords: Computer graphics, medical imaging, surface rendering, three-dimensional imaging, volume rendering

5 Technical poster session 1: multimedia analysis, processing, and retrieval: Facial expression representation and recognition based on texture augmentation and topographic masking
Lijun Yin, Johnny Loi, Wei Xiong
October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia**

Full text available: [A] pdf(392.98 KB)   Additional Information: full citation, abstract, references, index terms

The variation of facial texture and surface due to the change of expression is an important cue for analyzing and modeling facial expressions. In this paper, we propose a new approach to represent the facial expression by using a so-called topographic feature. In order to capture the variation of facial surface structure, facial textures are processed by increasing the resolution. The topographical structure of human face is analyzed based on the resolution-enhanced textures. We investigate t ...

Keywords: facial expression, feature labeling, super resolution

6 Impact of RET on physical layouts

Franklin M. Schellenberg, Luigi Capodieci

April 2001   **Proceedings of the 2001 international symposium on Physical design**

Full text available: 🔲 pdf(238.06 KB)   Additional Information: full citation, abstract, references, index terms

In this paper, we briefly describe the lithography developments known as RET (Resolution Enhancement Technologies), which include off-axis illumination in litho tools, Optical and Process Correction (OPC), and phase shifting masks (PSM). All of these techniques are adopted to allow ever smaller features to be reliably manufactured, and are being generally adopted in all manufacturing below 0.25 microns. However, their adoption also places certain restrictions on layouts. We explore these re ...

Keywords: DFM, OPC, PSM, RET, lithography, off-axis illumination, phase-shifting, physical verification, simulation

7 Adoption of OPC and the impact on design and layout

F. M. Schellenberg, Olivier Toublan, Luigi Capodieci, Bob Socha

June 2001   **Proceedings of the 38th conference on Design automation**

Full text available: 🔲 pdf(574.58 KB)   Additional Information: full citation, abstract, references, index terms

With the adoption of various combinations of resolution enhancement techniques (RET) for IC lithography, different process constraints are placed on the IC layout. The final layout used for mask production is dramatically different than the original designer's intent. To insure that EDA tools developed for applying RET techniques can have optimal performance, layout methodology must change to create a ture "target" layer that represents the actual design intent. Verification of ...

Keywords: OAI, OPC, PSM, Quasar, RET, SRAF, lithography, off-axis illumination, phase-shifting, quadrupole, scattering bars

8 Reticle enhancement technology: implications and challenges for physical design

W. Grobman, M. Thompson, R. Wang, C. Yuan, R. Tian, E. Demircan

June 2001   **Proceedings of the 38th conference on Design automation**

Full text available: 🔲 pdf(228.37 KB)   Additional Information: full citation, abstract, references, citings, index terms

In this paper, we review phase shift lithography, rule vs. model based methods for OPC and model-based tiling, and discuss their implications for layout and verificat ion. We will discuss novel approaches, using polarizing films on reticles, which change the game for phase-shift coloring, and could lead to a new direction in c:PSM constraints on physical design. We emphasize the need to do tiling that is model-driven and uses optimization techniques to achieve planarity for better manufactu ...

Keywords: OPC, PSM, RET, mask data preparation, optical proximity correction, reticle enhancement technology, subwavelength lithography, tiling

9 Image-based transfer function design for data exploration in volume visualization

Shiaofen Fang, Tom Biddlecome, Mihran Tuceryan

October 1998 **Proceedings of the conference on Visualization '98**

Full text available: pdf(1.78 MB)   Additional Information: full citation, references, citings, index terms
Publisher Site

Keywords: 3D image processing, data exploration, transfer function, volume rendering, volume visualization

10 Reproducing color images with embedded metallic patterns

Roger D. Hersch, Fabien Collaud, Patrick Emmel

July 2003   **ACM Transactions on Graphics (TOG)**, Volume 22 Issue 3

Full text available: pdf(380.10 KB)   Additional Information: full citation, abstract, references

By combining a metallic ink and standard inks, one may create printed images having a dynamic appearance: an image viewed under specular reflection may be considerably different from the same image viewed under non-specular reflection. Patterns which are either dark or hidden become highlighted under specular reflection, yielding interesting visual effects. To create such images, one needs to be able to reproduce at non-specular reflection angles the same colors, by standard inks alone or in com ...

Keywords: color prediction model, color reproduction, dot gain, ink spreading, metallic ink printing, trapping

11 A generalized object display processor architecture

Samuel M. Goldwasser

January 1984 **ACM SIGARCH Computer Architecture News , Proceedings of the 11th annual international symposium on Computer architecture**, Volume 12 Issue 3

Full text available: pdf(974.42 KB)   Additional Information: full citation, abstract, references, citings, index terms

A multiprocessor architecture has been developed which addresses the problem of the display and manipulation of multiple shaded three dimensional objects derived from emperical data on a raster scan CRT. Fully general control of such parameters as position, size, orientation, rotation, tone scale, and shading

are accomplished at video rates permitting real-time interaction with the display presentation. The GODPA architecture is based on a large number of relatively simple proces ...

12 Layout design methodolgies for sub-wavelength manufacturing
Michael L. Rieger, Jeffrey P. Mayhew, Sridhar Panchapakesan
June 2001   **Proceedings of the 38th conference on Design automation**

Full text available: ⬛ pdf(705.30 KB)   Additional Information: full citation, abstract, references, citings, index terms

In this paper, we describe new types of layout design constraints needed to effectively leverage advanced optical wafter lithography techniques. Most of these constraints are dictated by the physics of advanced lithography processes, while other constraints are imposed by new photomask techniques. Among the methods discussed are 1) phase shift mask (PSM) lithography in which phase information is placed to the photomask in combination with conventional clear and dar information; 2) optical p ...

Keywords: OPC, PSM, lithography, optical proximity correction, phase shift mask

13 Session 1: Domain decomposition for multiresolution analysis
Ioana M. Boier-Martin
June 2003   **Proceedings of the Eurographics/ACM SIGGRAPH symposium on Geometry processing**

Full text available: ⬛ pdf(4.24 MB)   Additional Information: full citation, abstract, references

This paper describes a method for converting an arbitrary mesh with irregular connectivity to a semi-regular multiresolution representation. A shape image encoding geometric and differential properties of the input model is computed. Standard image processing operations lead to an initial decomposition of the model that conforms to its salient features. A triangulation step performed on the resulting partition in image space, followed by resampling and multiresolution analysis in object space, c ...

Keywords: geometry images, model segmentation, multiresolution, subdivision surfaces

14 Digital facial engraving
Victor Ostromoukhov
July 1999   **Proceedings of the 26th annual conference on Computer graphics and interactive techniques**

Full text available: ⬛ pdf(12.33 MB)   Additional Information: full citation, references, citings, index terms

Keywords: digital engraving, dithering, halftoning, nonphotorealistic rendering, photorealistic rendering

15 Coding image sequences for interactive retrieval
Andrew Lippman, William Butera
July 1989   **Communications of the ACM,** Volume 32 Issue 7

Full text available: 📄 pdf(1.02 MB)   Additional Information: full citation, abstract, references, citings, index terms

An image coding technique for digital storage of motion picture information is presented that is optimated for use in interactive systems where high quality still frames, random access, and database linkages are required.

16 Enabling alternating phase shifted mask designs for a full logic gate level: design rules and design rule checking
Lars Liebmann
June 2001   **Proceedings of the 38th conference on Design automation**

Full text available: 📄 pdf(79.93 KB)   Additional Information: full citation, abstract, references, citings, index terms

The International Technology Roadmap for Semiconductors lists F2 (1 = 157 nm) optical lithography and extreme ultraviolet next generation lithography as the two most feasible lithography solutions for the 70 nm technology node. It is likely that both of these solutions will be late, forcing ArF (1 = 193 nm) lithography to operate at unprecedented resolution levels. Theoretically, alternating phase shifted masks ("altPSM") can achieve the resolution required to manufacture 70 nm ...

17 Session 7: Lithography and Routing: What's Next? (invited): Layout impact of resolution enhancement techniques: impediment or opportunity?
Lars W. Liebmann
April 2003   **Proceedings of the 2003 international symposium on Physical design**

Full text available: 📄 pdf(374.96 KB)   Additional Information: full citation, abstract, references, citings, index terms

This tutorial introduces the reader to the basic concepts of optical lithography, derives fundamental resolution limits, reviews the challenges facing future technology nodes, explains the principles of resolution enhancement techniques and their impact on chip layout, and discusses layout optimization considerations.

Keywords: design for manufacturability, lithography, radically restricted designs, resolution enhancement techniques

18 Embedded tutorial: subwavelength lithography
Tsuneo Terasawa
January 2000 **Proceedings of the 2000 conference on Asia South Pacific design automation**

Full text available: 📄 pdf(84.78 KB)   Additional Information: full citation, references

Results (page 1): +image +enhancement +mask

19 Towards comprehensive database support for geoscientific raster data

Norbert Widmann, Peter Baumann

November 1997 **Proceedings of the 5th ACM international workshop on Advances in geographic information systems**

Full text available: pdf(602.08 KB)   Additional Information: full citation, references, index terms

20 Geometric surface processing via normal maps

Tolga Tasdizen, Ross Whitaker, Paul Burchard, Stanley Osher

October 2003 **ACM Transactions on Graphics (TOG)**, Volume 22 Issue 4

Full text available: pdf(203.44 KB)   Additional Information: full citation, abstract, references, citings, index terms

We propose that the generalization of signal and image processing to surfaces entails filtering the normals of the surface, rather than filtering the positions of points on a mesh. Using a variational strategy, penalty functions on the surface geometry can be formulated as penalty functions on the surface normals, which are computed using geometry-based shape metrics and minimized using fourth-order gradient descent partial differential equations (PDEs). In this paper, we introduce a two-step ap ….

Keywords: Surface fairing, anisotropic diffusion, geometric surface processing, high-boost filtering, level sets

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